

**Modified Enlarged 18pt**

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS**

**Level 3 Cambridge Technical in Applied Science**

**05847/05848/05849/05874/05879**

**UNIT 1 Science fundamentals**

**UNIT 2 Laboratory techniques**

**UNIT 3 Scientific analysis and reporting**

**Copy of the periodic table**

## **INSTRUCTIONS**

**Do not send this sheet for marking; it should be retained in the centre or destroyed.**

## **INFORMATION**

**The information in this sheet is for the use of candidates following the Level 3 Cambridge Technical in Applied Science.**

# The Periodic Table of the Elements

(1)	(2)	<div>Key atomic number Symbol name relative atomic mass</div>										(3)	(4)	(5)	(6)	(7)	(0)
1												13	14	15	16	17	18
1 H hydrogen 1.0												5 B boron 10.8	6 C carbon 12.0	7 N nitrogen 14.0	8 O oxygen 16.0	9 F fluorine 19.0	10 Ne neon 20.2
3 Li lithium 6.9	4 Be beryllium 9.0																
11 Na sodium 23.0	12 Mg magnesium 24.3											13 Al aluminium 27.0	14 Si silicon 28.1	15 P phosphorus 31.0	16 S sulfur 32.1	17 Cl chlorine 35.5	18 Ar argon 39.9
19 K potassium 39.1	20 Ca calcium 40.1	21 Sc scandium 45.0	22 Ti titanium 47.9	23 V vanadium 50.9	24 Cr chromium 52.0	25 Mn manganese 54.9	26 Fe iron 55.8	27 Co cobalt 58.9	28 Ni nickel 58.7	29 Cu copper 63.5	30 Zn zinc 65.4	31 Ga gallium 69.7	32 Ge germanium 72.6	33 As arsenic 74.9	34 Se selenium 79.0	35 Br bromine 79.9	36 Kr krypton 83.8
37 Rb rubidium 85.5	38 Sr strontium 87.6	39 Y yttrium 88.9	40 Zr zirconium 91.2	41 Nb niobium 92.9	42 Mo molybdenum 95.9	43 Tc technetium	44 Ru ruthenium 101.1	45 Rh rhodium 102.9	46 Pd palladium 106.4	47 Ag silver 107.9	48 Cd cadmium 112.4	49 In indium 114.8	50 Sn tin 118.7	51 Sb antimony 121.8	52 Te tellurium 127.6	53 I iodine 126.9	54 Xe xenon 131.3
55 Cs caesium 132.9	56 Ba barium 137.3	57–71 lanthanoids	72 Hf hafnium 178.5	73 Ta tantalum 180.9	74 W tungsten 183.8	75 Re rhenium 186.2	76 Os osmium 190.2	77 Ir iridium 192.2	78 Pt platinum 195.1	79 Au gold 197.0	80 Hg mercury 200.6	81 Tl thallium 204.4	82 Pb lead 207.2	83 Bi bismuth 209.0	84 Po polonium	85 At astatine	86 Rn radon
87 Fr francium	88 Ra radium	89–103 actinoids	104 Rf rutherfordium	105 Db dubnium	106 Sg seaborgium	107 Bh bohrium	108 Hs hassium	109 Mt meitnerium	110 Ds darmstadtium	111 Rg roentgenium	112 Cn copernicium		114 Fl flerovium		116 Lv livermorium		

57 La lanthanum 138.9	58 Ce cerium 140.1	59 Pr praseodymium 140.9	60 Nd neodymium 144.2	61 Pm promethium 144.9	62 Sm samarium 150.4	63 Eu europium 152.0	64 Gd gadolinium 157.2	65 Tb terbium 158.9	66 Dy dysprosium 162.5	67 Ho holmium 164.9	68 Er erbium 167.3	69 Tm thulium 168.9	70 Yb ytterbium 173.0	71 Lu lutetium 175.0
89 Ac actinium	90 Th thorium 232.0	91 Pa protactinium	92 U uranium 238.1	93 Np neptunium	94 Pu plutonium	95 Am americium	96 Cm curium	97 Bk berkelium	98 Cf californium	99 Es einsteinium	100 Fm fermium	101 Md mendelevium	102 No nobelium	103 Lr lawrencium

ELEMENTS LISTED IN NUMERICAL ORDER:

1	Hydrogen	H	41	Niobium	Nb	111	Roentgenium	Rg
2	Helium	He	42	Molybdenum	Mo	112	Copernicium	Cn
3	Lithium	Li	43	Technetium	Tc	114	Flerovium	Fl
4	Beryllium	Be	44	Ruthenium	Ru	116	Livermorium	Lv
5	Boron	B	45	Rhodium	Rh			
6	Carbon	C	46	Palladium	Pd			
7	Nitrogen	N	47	Silver	Ag			
8	Oxygen	O	48	Cadmium	Cd			
9	Fluorine	F	49	Indium	In			
10	Neon	Ne	50	Tin	Sn			
11	Sodium	Na	51	Antimony	Sb			
12	Magnesium	Mg	52	Tellurium	Te			
13	Aluminium	Al	53	Iodine	I			
14	Silicon	Si	54	Xenon	Xe			
15	Phosphorus	P	55	Caesium	Cs			
16	Sulfur	S	56	Barium	Ba			
17	Chlorine	Cl	72	Hafnium	Hf			
18	Argon	Ar	73	Tantalum	Ta			
19	Potassium	K	74	Tungsten	W			
20	Calcium	Ca	75	Rhenium	Re			
21	Scandium	Sc	76	Osmium	Os			
22	Titanium	Ti	77	Iridium	Ir			
23	Vanadium	V	78	Platinum	Pt			
24	Chromium	Cr	79	Gold	Au			
25	Manganese	Mn	80	Mercury	Hg			
26	Iron	Fe	81	Thallium	Tl			
27	Cobalt	Co	82	Lead	Pb			
28	Nickel	Ni	83	Bismuth	Bi			
29	Copper	Cu	84	Polonium	Po			
30	Zinc	Zn	85	Astatine	At			
31	Gallium	Ga	86	Radon	Rn			
32	Germanium	Ge	87	Francium	Fr			
33	Arsenic	As	88	Radium	Ra			
34	Selenium	Se	104	Rutherfordium	Rf			
35	Bromine	Br	105	Dubnium	Db			
36	Krypton	Kr	106	Seaborgium	Sg			
37	Rubidium	Rb	107	Bohrium	Bh			
38	Strontium	Sr	108	Hassium	Hs			
39	Yttrium	Y	109	Meitnerium	Mt			
40	Zirconium	Zr	110	Darmstadtium	Ds			



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